

Claims

1. Air control system in the front end of a motor vehicle, which comprises a bumper unit (21) and a cooling module (22), having openings (28, 31) in a front end wall (24) defining the front end (20), through which cooling air flows into a motor compartment, air ducts (2, 3) being provided which deliver the cooling air into the motor compartment, substantially against the direction of travel and which are formed by boundary walls (7, 19) disposed approximately parallel to the direction of the air flow, the boundary walls (7, 19) being integrated into a body panel (1) which extends approximately across the air flow direction and has openings (6, 10, 11, 18) at least partially in the area covered by the openings (28, 31), characterized in that the body panel (1) is fastened to the cooling module (22) and the boundary walls (7, 19) projecting from the marginal areas adjacent the ports (6, 18) are provided at their free ends with circumferential sealing flanges (39, 41, 44).
2. Air control system according to claim 1, characterized in that the body panel (1) is arranged mainly behind a bumper unit (21), the bumper unit (21) comprising a bumper covering (27), a flexural crossbeam (25) and a bumper interior part (26).
3. Air control system according to claim 1, characterized in that one of the openings is a large-area upper opening (6) above the flexural beam (25).
4. Air control system according to claim 1, characterized in that one of the openings is a large-area lower opening (18) beneath the flexural beam (25).
5. Air control system according to claim 3, characterized in that the lower boundary edge (7) of the upper opening (6) of the body panel (1) lies sealingly against the back of the flexural beam (25).
6. Air control system according to claim 5, characterized in that two circular openings (10, 11) are provided on either side of the upper opening (6), from the marginal areas of which adjoining the marginal areas adjacent the openings a hollow cylindrical defining wall (12, 13) projects.
7. Air control system according to claim 6, characterized in that two additional circular openings (46, 47) are provided on both sides of the upper opening (6).

8. Air control system according to any one of claims 1 to 7, characterized in that at least one outside corner area (15, 16) of the body panel (1) is joined pivotingly to the body panel (1).